

TRAFFIC DEVICES TECHNICIAN

DEFINITION

To perform a variety of routine technical work in the installation, repair, modification and maintenance of traffic control devices including the traffic signal system, yellow flashing lights, street lighting, and other electrical and complex electronic circuits.

SUPERVISION RECEIVED AND EXERCISED

Receives general supervision from the Traffic Devices Technician Supervisor.

ESSENTIAL FUNCTIONS – Functions may include, but are not limited to, the following:

Install traffic signal control equipment consisting of: cabinets, controllers, detectors, conduits, conductors, signal standards and signal heads; responds to traffic signal emergencies.

Install low and high voltage street lighting systems.

Troubleshoot and diagnoses traffic signal and streetlight problems; make effective repairs.

Repair traffic signal and lighting equipment; order replacement parts; divert traffic flow; properly place cons, barricades and warning devices to direct traffic flow at job site.

Tune digital and analog controllers to obtain optimum operation.

Work with contractors during new traffic signal and streetlight installations projects; test new equipment

Operate an aerial bucket, or scissors lift type vehicle skillfully and safely.

Operates hand and pneumatic tools, as required in performance of regular duties

Respond to emergency situations in off-hours as required.

Keep work related records using a computer.

Build and maintain positive working relationships with co-workers, other City employees and the public using principles of good customer services.

Perform other related duties as assigned.

MINIMUM QUALIFICATIONS

Knowledge of:

Electrical and electronic theory and practices, including analog and digital solid state control devices, methods, practices, and tools used in electrical and electronic installation, maintenance, testing, and repair work;

Test equipment common to electrical and electronics work.

Safety principles and precautions related to the work

Codes, ordinances, and regulations pertaining to the work.

Electrical mathematics

Pertinent rules, laws, and policies related to area of assignment.

Practices and procedures of traffic control and flagging.

Safe work methods and safety regulations pertaining to the work.

Computer equipment and software applications related to assignment.

English usage, spelling, grammar, and punctuation.

Ability to:

Operating and maintaining a variety of hand, power and shop tools and equipment used in electrical installation, maintenance and repair work;

Properly place cones, barricades and warning devices and directing traffic flow at job sites.

Read and interpret schematics, blueprints, plans, and specifications.

Prepare basic records.

Estimate materials and equipment necessary to complete assigned jobs.

Work on 120 and 240 volt electrical circuits.

Inspect contract work for conformity to specifications.

Use and operate tools and equipment related to assignment, including personal protective equipment.

Keep work related records and prepare reports using a computer.

Work effectively at remote locations without direct supervision.

Operate City vehicles observing legal and defensive driving practices.

Follow oral instruction; read, interpret, follow and explain written instructions, construction sketches and equipment manuals.

Use initiative and sound independent judgment within established guidelines.

Communicate clearly and concisely, both orally and in writing.

Work overtime and off-hours shifts in emergency situations.

Establish and maintain effective working relationships with those contacted in the course of work.

Work with various cultural and ethnic groups in a tactful and effective manner.

Experience and Training

Any combination of experience and training that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:

Experience:

Two years of responsible experience in the maintenance and repair of electrical devices and equipment.

Training:

Equivalent to the completion of the twelfth grade supplemented by college courses in electronic technology or a related field.

License or Certificate

Possession of a valid California driver's license.

PHYSICAL DEMANDS

On a continuous basis, sit, stand, bend, climb ladders (up to 30 feet), stoop, kneel, crouch, crawl and twist for varying periods in the course of work; use hands and fingers to grasp tools; make repetitive hand and body motions; twist and reach below and above shoulder; lift or carry objects weighing up to 100 pounds with assistance or equipment; work in a bucket up to 40 feet in the air; to communicate with co-workers using a two-way radio and hand signals; use telephone, and write or use a keyboard to communicate through written means; see in the normal vision range with or without correction to read computer screen, blueprints, and drafting plans; hear in the normal range with or without correction.

WORKING ENVIRONMENT

Work is primary performed outdoors; movement is required from worksite to worksite and there is exposure to the external environment during the course of work. Some work is required with exposure to moderate to heavy traffic noise levels. Work may require exposure to high voltage and unprotected heights.

4/03